

PF-0612 USN

<110> INCYTE GENOMICS, INC.
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AU-YOUNG, Janice K.; REDDY, Roopa M.
CORLEY, Neil C.; GUEGLER, Karl J.
GORGONE, Gina A.; BAUGHN, Mariah R.
AZIMZAI, Yalda

<120> G-PROTEIN COUPLED RECEPTOR PROTEINS

<130> PF-0612 USN

<140> US 09/806,537

<141> To Be Assigned

<150> PCT/US99/23317

<151> 1999-10-06

<150> US 09/167,219

<151> 1998-10-06

<150> US 60/172,211

<151> 1998-10-06

<150> US 60/133,585

<151> 1999-05-11

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<213> Homo sapiens

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<223> Incyte ID No: 1595762CD1

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Asp	Phe	Arg	Phe	Cys	Ser	Gln	Arg	Asn	Gln	Thr	His	Arg	Ser	Ser
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Leu	His	Tyr	Lys	Pro	Thr	Pro	Asp	Leu	Arg	Ile	Ser	Ile	Glu	Asn
				50					55					60
Ser	Glu	Glu	Ala	Leu	Thr	Val	His	Ala	Pro	Phe	Pro	Ala	Ala	His
				65					70					75
Pro	Ala	Ser	Arg	Ser	Phe	Pro	Asp	Pro	Arg	Gly	Leu	Tyr	His	Phe
				80					85					90
Cys	Leu	Tyr	Trp	Asn	Arg	His	Ala	Gly	Arg	Leu	His	Leu	Leu	Tyr
				95					100					105
Gly	Lys	Arg	Asp	Phe	Leu	Leu	Ser	Asp	Lys	Ala	Ser	Ser	Leu	Leu
				110					115					120
Cys	Phe	Gln	His	Gln	Glu	Glu	Ser	Leu	Ala	Gln	Gly	Pro	Pro	Leu
				125					130					135
Leu	Ala	Thr	Ser	Val	Thr	Ser	Trp	Trp	Ser	Pro	Gln	Asn	Ile	Ser

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His Thr Ala Ala His Asn Ala Ser Val Asp Met Cys Glu Leu Lys		
170	175	180
Arg Asp Leu Gln Leu Leu Ser Gln Phe Leu Lys His Pro Gln Lys		
185	190	195
Ala Ser Arg Arg Pro Ser Ala Ala Pro Ala Ser Gln Gln Leu Gln		
200	205	210
Ser Leu Glu Ser Lys Leu Thr Ser Val Arg Phe Met Gly Asp Met		
215	220	225
Val Ser Phe Glu Glu Asp Arg Ile Asn Ala Thr Val Trp Lys Leu		
230	235	240
Gln Pro Thr Ala Gly Leu Gln Asp Leu His Ile His Ser Arg Gln		
245	250	255
Glu Glu Glu Gln Ser Glu Ile Met Glu Tyr Ser Val Leu Leu Pro		
260	265	270
Arg Thr Leu Phe Gln Arg Thr Lys Gly Arg Ser Gly Glu Ala Glu		
275	280	285
Lys Arg Leu Leu Leu Val Asp Phe Ser Ser Gln Ala Leu Phe Gln		
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Asp Lys Asn Ser Ser Gln Val Leu Gly Glu Lys Val Leu Gly Ile		
305	310	315
Val Val Gln Asn Thr Lys Val Ala Asn Leu Thr Glu Pro Val Val		
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Leu Thr Phe Gln His Gln Leu Gln Pro Lys Asn Val Thr Leu Gln		
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Cys Val Phe Trp Val Glu Asp Pro Thr Leu Ser Ser Pro Gly His		
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Trp Ser Ser Ala Gly Cys Glu Thr Val Arg Arg Glu Thr Gln Thr		
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Ser Cys Phe Cys Asn His Leu Thr Tyr Phe Ala Val Leu Met Val		
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Ser Ser Val Glu Val Asp Ala Val His Lys His Tyr Leu Ser Leu		
395	400	405
Leu Ser Tyr Val Gly Cys Val Val Ser Ala Leu Ala Cys Leu Val		
410	415	420
Thr Ile Ala Ala Tyr Leu Cys Ser Arg Val Pro Leu Pro Cys Arg		
425	430	435
Arg Lys Pro Arg Asp Tyr Thr Ile Lys Val His Met Asn Leu Leu		
440	445	450
Leu Ala Val Phe Leu Leu Asp Thr Ser Phe Leu Leu Ser Glu Pro		
455	460	465
Val Ala Leu Thr Gly Ser Glu Ala Gly Cys Arg Ala Ser Ala Ile		
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Phe Leu His Phe Ser Leu Leu Thr Cys Leu Ser Trp Met Gly Leu		
485	490	495
Glu Gly Tyr Asn Leu Tyr Arg Leu Val Val Glu Val Phe Gly Thr		
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Tyr Val Pro Gly Tyr Leu Leu Lys Leu Ser Ala Met Gly Trp Gly		
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Phe Pro Ile Phe Leu Val Thr Leu Val Ala Leu Val Asp Val Asp		
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Asn Tyr Gly Pro Ile Ile Leu Ala Val His Arg Thr Pro Glu Gly		
545	550	555
Val Ile Tyr Pro Ser Met Cys Trp Ile Arg Asp Ser Leu Val Ser		
560	565	570
Tyr Ile Thr Asn Leu Gly Leu Phe Ser Leu Val Phe Leu Phe Asn		
575	580	585

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Ala	Ser	Gly	Thr	Phe	Gln	Leu	Val	Val	Leu	Tyr	Leu	Phe	Ser	Ile
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Ile	Thr	Ser	Phe	Gln	Gly	Phe	Leu	Ile	Phe	Ile	Trp	Tyr	Trp	Ser
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Met	Arg	Leu	Gln	Ala	Arg	Gly	Gly	Pro	Ser	Pro	Leu	Lys	Ser	Asn
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Asp	Phe	Arg	Phe	Cys	Ser	Gln	Arg	Asn	Gln	Thr	His	Arg	Ser	Ser
			35						40					45
Leu	His	Tyr	Tyr	Trp	Ser	Met	Arg	Leu	Gln	Ala	Arg	Gly	Gly	Pro
			50						55					60
Ser	Pro	Leu	Lys	Ser	Asn	Ser	Asp	Ser	Ala	Arg	Leu	Pro	Ile	Ser
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Ser	Leu	Ser	Cys	Cys	Val	Pro	Asp	Ile	Asn	Glu	Cys	Ala	Thr	Pro
			20						25					30
Ser	Lys	Val	Ser	Cys	Gly	Lys	Phe	Ser	Asp	Cys	Trp	Asn	Thr	Glu
			35						40					45
Gly	Ser	Tyr	Asp	Cys	Val	Cys	Ser	Pro	Gly	Tyr	Glu	Pro	Val	Ser
			50						55					60
Gly	Ala	Lys	Thr	Phe	Lys	Asn	Glu	Ser	Glu	Asn	Thr	Cys	Gln	Gly

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				65					70					75
Lys	Asn	His	Pro	Thr	Ser	Ser	Asp	Phe	Pro	Ser	Met	Arg	Phe	Gly
				80					85					90
Val	Thr	Arg	Ala	Ile	Leu	Ala	Ala	Ser	Arg	Glu	Gln	Gly	Leu	Gly
				95					100					105
Cys	Arg	Val	Ser	Ala	Trp	Arg	Leu	Arg	Trp	Asp	Arg	Cys	Thr	Cys
				110					115					120
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Val	Leu	Ile	Phe	Tyr	Phe	Ile	Ile	Leu	Pro	Gly	Asn	Phe	Leu	Ile
				35					40					45
Ile	Phe	Thr	Ile	Lys	Ser	Asp	Pro	Gly	Leu	Thr	Ala	Pro	Leu	Tyr
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Phe	Phe	Leu	Gly	Asn	Leu	Ala	Phe	Leu	Asp	Ala	Ser	Tyr	Ser	Phe
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Ile	Val	Ala	Pro	Arg	Met	Leu	Val	Asp	Phe	Leu	Ser	Ala	Lys	Lys
				80					85					90
Ile	Ile	Ser	Tyr	Arg	Gly	Cys	Ile	Thr	Gln	Leu	Phe	Phe	Leu	His
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Phe	Leu	Gly	Gly	Gly	Glu	Gly	Leu	Leu	Leu	Val	Val	Met	Ala	Phe
				110					115					120
Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Pro	Thr	Val
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Met	Asn	Pro	Arg	Thr	Cys	Tyr	Ala	Met	Met	Leu	Ala	Leu	Trp	Leu
				140					145					150
Gly	Gly	Phe	Val	His	Ser	Ile	Ile	Gln	Val	Val	Leu	Ile	Leu	Arg
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Leu	Pro	Phe	Cys	Gly	Pro	Asn	Gln	Leu	Asp	Asn	Phe	Phe	Cys	Asp
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Val	Pro	Gln	Val	Ile	Lys	Leu	Ala	Cys	Thr	Asp	Thr	Phe	Val	Val
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Glu	Leu	Leu	Met	Val	Phe	Asn	Ser	Gly	Leu	Met	Thr	Leu	Leu	Cys
				200					205					210
Phe	Leu	Gly	Leu	Leu	Ala	Ser	Tyr	Ala	Val	Ile	Leu	Cys	Arg	Ile
				215					220					225
Arg	Gly	Ser	Ser	Ser	Glu	Ala	Lys	Asn	Lys	Ala	Met	Ser	Thr	Cys
				230					235					240
Ile	Thr	His	Ile	Ile	Val	Ile	Phe	Phe	Met	Phe	Gly	Pro	Gly	Ile
				245					250					255
Phe	Ile	Tyr	Thr	Arg	Pro	Phe	Arg	Ala	Phe	Pro	Ala	Asp	Lys	Val
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 35 40 45
 Thr Asn Glu Thr Ile His Met Gln Met Ser Met Ala Val Gly Gln
 50 55 60
 Gln Ala Leu Pro Leu Asn Ile Ile Ala Pro Lys Ala Val Leu Val
 65 70 75
 Ser Leu Cys Gly Val Leu Leu Asn Gly Thr Val Phe Trp Leu Leu
 80 85 90
 Cys Cys Gly Ala Thr Asn Pro Tyr Met Val Tyr Ile Leu His Leu
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 35 40 45
 Lys Ala Gln Lys Val Trp Cys Arg Phe Leu Pro Glu Gly Cys Gln
 50 55 60
 Pro Leu Val Ser Ser Ala Val Asp Arg Arg Ala Pro Ala Gly Arg
 65 70 75
 Arg Thr Phe Leu Thr Asp Leu Gly Gly Gly Leu Leu Gln Val Glu
 80 85 90
 Met Val Thr Leu Gln Glu Glu Asp Ala Gly Glu Tyr Gly Cys Met
 95 100 105
 Val Asp Gly Ala Arg Gly Pro Gln Ile Leu His Arg Val Ser Leu
 110 115 120

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Asn	Ile	Leu	Pro	Pro	Glu	Glu	Glu	Glu	Glu	Thr	His	Lys	Ile	Gly
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Ser	Leu	Ala	Glu	Asn	Ala	Phe	Ser	Asp	Pro	Ala	Gly	Ser	Ala	Asn
				140						145				150
Pro	Leu	Glu	Pro	Ser	Gln	Asp	Glu	Lys	Ser	Ile	Pro	Leu	Ile	Trp
				155						160				165
Gly	Ala	Val	Leu	Leu	Val	Gly	Leu	Leu	Val	Ala	Ala	Val	Val	Leu
				170						175				180
Phe	Ala	Val	Met	Ala	Lys	Arg	Lys	Gln	Glu	Ser	Leu	Leu	Ser	Gly
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				20					25					30
Trp	Val	Glu	Leu	Pro	Val	Val	Val	Lys	Glu	Leu	Pro	Glu	Gly	Trp
				35					40					45
Ser	Leu	Pro	Ser	Tyr	Val	Ser	Val	Leu	Val	Ala	Leu	Gly	Asn	Leu
				50					55					60
Gly	Leu	Leu	Val	Val	Thr	Leu	Trp	Arg	Arg	Leu	Ala	Pro	Gly	Lys
				65					70					75
Asp	Glu	Gln	Val	Pro	Ile	Arg	Val	Val	Gln	Val	Leu	Gly	Met	Val
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Gly	Thr	Ala	Leu	Leu	Ala	Ser	Leu	Trp	His	His	Val	Ala	Pro	Val
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Ala	Gly	Gln	Leu	His	Ser	Val	Ala	Phe	Leu	Ala	Leu	Ala	Phe	Val
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Leu	Ala	Leu	Ala	Cys	Cys	Ala	Ser	Asn	Val	Thr	Phe	Leu	Pro	Phe
				125					130					135
Leu	Ser	His	Leu	Pro	Pro	Arg	Phe	Leu	Arg	Ser	Phe	Phe	Leu	Gly
				140					145					150
Gln	Gly	Leu	Ser	Ala	Leu	Leu	Pro	Cys	Val	Leu	Ala	Leu	Val	Gln
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Gly	Val	Gly	Arg	Leu	Glu	Cys	Pro	Pro	Ala	Pro	Ile	Asn	Gly	Thr
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Pro	Gly	Pro	Pro	Leu	Asp	Phe	Leu	Glu	Arg	Phe	Pro	Ala	Ser	Thr
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Phe	Phe	Trp	Ala	Leu	Thr	Ala	Leu	Leu	Val	Ala	Ser	Ala	Ala	Ala
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Phe	Gln	Gly	Leu	Leu	Leu	Leu	Leu	Pro	Pro	Pro	Pro	Ser	Val	Pro
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Thr	Gly	Glu	Leu	Gly	Ser	Gly	Leu	Gln	Val	Gly	Ala	Pro	Gly	Ala
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Glu	Glu	Glu	Val	Glu	Glu	Ser	Ser	Pro	Leu	Gln	Glu	Pro	Pro	Ser
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Gln	Ala	Ala	Gly	Thr	Thr	Pro	Gly	Pro	Asp	Pro	Lys	Ala	Tyr	Gln
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Leu	Leu	Ser	Ala	Arg	Ser	Ala	Cys	Leu	Leu	Gly	Leu	Leu	Ala	Ala	
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Thr	Asn	Ala	Leu	Thr	Asn	Gly	Val	Leu	Pro	Ala	Val	Gln	Ser	Phe	
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Ser	Cys	Leu	Pro	Tyr	Gly	Arg	Leu	Ala	Tyr	His	Leu	Ala	Val	Val	
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Val	Leu	Cys	Arg	Ser	Leu	Ala	Gly	Leu	Gly	Gly	Leu	Ser	Leu	Leu	
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Gly	Val	Phe	Cys	Gly	Gly	Tyr	Leu	Met	Ala	Leu	Ala	Val	Leu	Ser	
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Pro	Cys	Pro	Pro	Leu	Val	Gly	Thr	Ser	Ala	Gly	Val	Val	Leu	Val	
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Val	Leu	Ser	Trp	Val	Leu	Cys	Leu	Gly	Val	Phe	Ser	Tyr	Val	Lys	
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Val	Ala	Ala	Ser	Ser	Leu	Leu	His	Gly	Gly	Gly	Arg	Pro	Ala	Leu	
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Leu	Ala	Ala	Gly	Val	Ala	Ile	Gln	Val	Gly	Ser	Leu	Leu	Gly	Ala	
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Val	Ala	Met	Phe	Pro	Pro	Thr	Ser	Ile	Tyr	His	Val	Phe	His	Ser	
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Arg	Lys	Asp	Cys	Ala	Asp	Pro	Cys	Asp	Ser						
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<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 2763296CB1

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 <211> 2171
 <212> DNA
 <213> Homo sapiens

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<210> 17

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<212> PRT

<213> Homo sapiens

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<221> misc_feature

<223> GenBank ID No: g2117161

<400> 17

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His Val Val Leu Val Thr Ser Leu Glu Glu Asp Thr Asp Asn Ser
  35          40          45
Ser Leu Ser Pro Pro Pro Ala Lys Leu Ser Val Val Ser Phe Ala
  50          55          60
Pro Ser Ser Asn Glu Val Glu Thr Thr Ser Leu Asn Asp Val Thr
  65          70          75
Leu Ser Leu Leu Pro Ser Asn Glu Thr Glu Lys Thr Lys Ile Thr
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Ile Val Lys Thr Phe Asn Ala Ser Gly Val Lys Pro Gln Arg Asn
  95          100         105
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Asp	Leu	Gly	Arg	Asn	Gly	Gly	Arg	Gly	Gly	Trp	Ser	Asp	Asn	Gly
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Cys Ile Ser Val	Ala Val Phe Leu His	Tyr Phe Leu Leu Val Ser			
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Val Lys Val Phe	Asn Thr Tyr Ile Arg	Lys Tyr Ile Leu Lys Phe			
	725		730		735
Cys Ile Val Gly	Trp Gly Val Pro Ala	Val Val Val Thr Ile Ile			
	740		745		750
Leu Thr Ile Ser	Pro Asp Asn Tyr Gly	Leu Gly Ser Tyr Gly Lys			
	755		760		765
Phe Pro Asn Gly	Ser Pro Asp Asp Phe	Cys Trp Ile Asn Asn Asn			
	770		775		780
Ala Val Phe Tyr	Ile Thr Val Val Gly	Tyr Phe Cys Val Ile Phe			
	785		790		795
Leu Leu Asn Val	Ser Met Phe Ile Val	Val Leu Val Gln Leu Cys			
	800		805		810
Arg Ile Lys Lys	Lys Lys Gln Leu Gly	Ala Gln Arg Lys Thr Ser			
	815		820		825
Ile Gln Asp Leu	Arg Ser Ile Ala Gly	Leu Thr Phe Leu Leu Gly			
	830		835		840
Ile Thr Trp Gly	Phe Ala Phe Phe Ala	Trp Gly Pro Val Asn Val			
	845		850		855
Thr Phe Met Tyr	Leu Phe Ala Ile Phe	Asn Thr Leu Gln Gly Phe			
	860		865		870
Phe Ile Phe Ile	Phe Tyr Cys Val Ala	Lys Glu Asn Val Arg Lys			
	875		880		885
Gln Trp Arg Arg	Tyr Leu Cys Cys Gly	Lys Leu Arg Leu Ala Glu			
	890		895		900
Asn Ser Asp Trp	Ser Lys Thr Ala Thr	Asn Gly Leu Lys Lys Gln			
	905		910		915
Thr Val Asn Gln	Gly Val Ser Ser Ser	Ser Asn Ser Leu Gln Ser			
	920		925		930
Ser Ser Asn Ser	Thr Asn Ser Thr Thr	Leu Leu Val Asn Asn Asp			
	935		940		945
Cys Ser Val His	Ala Ser Gly Asn Gly	Asn Ala Ser Thr Glu Arg			
	950		955		960
Asn Gly Val Ser	Phe Ser Val Gln Asn	Gly Asp Val Cys Leu His			
	965		970		975
Asp Phe Thr Gly	Lys Gln His Met Phe	Asn Glu Lys Glu Asp Ser			
	980		985		990
Cys Asn Gly Lys	Gly Arg Met Ala Leu	Arg Arg Thr Ser Lys Arg			
	995		1000		1005
Gly Ser Leu His	Phe Ile Glu Gln Met				
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<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

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<400> 18

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Pro	Gly	Ala	Glu	Thr	Gln	Asp	Ser	Arg	Gly	Cys	Ala	Arg	Trp	Cys	
				20					25					30	
Pro	Gln	Asp	Ser	Ser	Cys	Val	Asn	Ala	Thr	Ala	Cys	Arg	Cys	Asn	
				35					40					45	
Pro	Gly	Phe	Ser	Ser	Phe	Ser	Glu	Ile	Ile	Thr	Thr	Pro	Asp	Ile	
				50					55					60	
Asn	Glu	Cys	Ala	Thr	Leu	Ser	Lys	Val	Ser	Cys	Gly	Lys	Phe	Ser	
				65					70					75	
Asp	Cys	Trp	Asn	Thr	Glu	Gly	Ser	Tyr	Asp	Cys	Val	Cys	Ser	Pro	
				80					85					90	
Gly	Tyr	Glu	Pro	Val	Ser	Gly	Ala	Lys	Thr	Phe	Lys	Asn	Glu	Ser	
				95					100					105	
Glu	Asn	Thr	Cys	Gln	Asp	Val	Asp	Glu	Cys	Gln	Gln	Asn	Pro	Arg	
				110					115					120	
Leu	Cys	Lys	Ser	Tyr	Gly	Thr	Cys	Val	Asn	Thr	Leu	Gly	Ser	Tyr	
				125					130					135	
Thr	Cys	Gln	Cys	Leu	Pro	Gly	Phe	Lys	Asp	Val	Asn	Glu	Cys	Thr	
				140					145					150	
Ser	Gly	Gln	Asn	Pro	Cys	His	Ser	Ser	Thr	His	Cys	Leu	Asn	Asn	
				155					160					165	
Val	Gly	Ser	Tyr	Gln	Cys	Arg	Cys	Arg	Pro	Gly	Trp	Gln	Pro	Ile	
				170					175					180	
Pro	Gly	Ser	Pro	Asn	Gly	Pro	Asn	Asn	Thr	Val	Cys	Glu	Asp	Val	
				185					190					195	
Asp	Glu	Cys	Ser	Ser	Gly	Gln	His	Gln	Cys	Asp	Ser	Ser	Thr	Val	
				200					205					210	
Cys	Phe	Asn	Thr	Val	Gly	Ser	Tyr	Ser	Cys	Arg	Cys	Arg	Pro	Gly	
				215					220					225	
Trp	Lys	Pro	Arg	His	Gly	Ile	Pro	Asn	Asn	Gln	Lys	Asp	Thr	Val	
				230					235					240	
Cys	Glu	Asp	Met	Thr	Phe	Ser	Thr	Trp	Thr	Pro	Pro	Pro	Gly	Val	
				245					250					255	
His	Ser	Gln	Thr	Leu	Ser	Arg	Phe	Phe	Asp	Lys	Val	Gln	Asp	Leu	
				260					265					270	
Gly	Arg	Asp	His	Leu	Ser	Ser	Phe	Ala	Val	Leu	Met	Ala	His	Tyr	
				275					280					285	

Asp Val